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PHOTOGRAPHIC INTELLIGENCE MEMORANDUM

NORTH KOREAN ELECTRIC POWER DAMAGE ASSESSMENT REPORT

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OFFICE OF RESEARCH AND REPORTS

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NORTH KOREAN ELECTRIC POWER DAMAGE ASSESSMENT REPORT

This study presents an estimate of bomb damage suffered by electric power facilities in North Korea based upon analyses of aerial photography. Important installations not covered in this report will be subject to supplementary reports that will be issued as additional photography becomes available.

This report does not necessarily indicate the condition of the installation at the cessation of hostilities, as some of the photography was taken as early as [REDACTED]. The dates of aerial coverage are presented with the damage estimate for each electric power installation.

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HYDROELECTRIC POWER PLANTS

25X1D

CHOSIN #1 (H-1)\*

- (a) Four of 4 penstocks broken
- (b) Approximately one-third of generator house collapsed
- (c) Sub-station destroyed

UTM  
Coordinates

CV551528

CHOSIN #2 (H-2)

- (a) Roof off surge tanks; tank empty
- (b) Four of 4 penstocks broken
- (c) Generator hall pierced in several places
- (d) Sub-station destroyed
- (e) Auxiliary intake destroyed

CV573474

CHOSIN #3 (H-3)

- (a) Roof off surge tank
- (b) Three of 3 penstocks broken
- (c) Generator hall pierced by bombs in several places
- (d) Sub-station destroyed
- (e) Auxiliary intake pierced by bombs in one place

CV584431

CHOSIN #4 (H-4)

- (a) Roof off surge tank and tank empty
- (b) One of 3 penstocks broken
- (c) Overflow pipe broken
- (d) Sub-station destroyed

CV646334

FUNEI #1 (H-5)

No apparent damage (poor coverage)

EB510564

FUNEI #2 (H-6)

- (a) Penstock intact
- (b) Generator house appears intact
- (c) Sub-station destroyed
- (d) Ten of 15 nearby buildings destroyed

EB558562

\*H-1, etc. indicates the location of installation on attached map

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25X1D

FUSEN #1 (H-7)

- (a) Two of 4 penstocks broken
- (b) Roof off generator house
- (c) Sub-station destroyed

FUSEN #2 (H-8)

- (a) Penstocks intact
- (b) Ends and roof off generator house
- (c) Sub-station damaged

FUSEN #3 (H-9)

- (a) Penstocks probably broken
- (b) Three-quarters of generator house destroyed
- (c) Sub-station destroyed

FUSEN #4 (H-10)

- (a) Roof off surge tank
- (b) Penstocks underground
- (c) Roof and one end off generator house due to one direct hit on end of building
- (d) Sub-station destroyed

KONGSAN #3 (H-11)

- (a) Generator building partially gutted
- (b) Transformer yard destroyed
- (c) Penstock ruptured

KONGSAN #4 (H-12)

- (a) Generator building completely gutted
- (b) Penstock ruptured
- (c) Half of surge tank roof missing
- (d) Transformer yard damaged

UTM  
Coordinates

CV779671

CV805621

CV802561

CV766504

DT015982

DU030010

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UTM  
Coordinates

DA534140

KYOSEN #1 (H-13)

- (a) Six to 8 of 8 penstocks broken
- (b) Generator house pierced in 3 places
- (c) Sub-station east of generator house destroyed; sub-station on northwest corner of generator house partially destroyed in spite of heavy revetments. Four transformers appear intact
- (d) Dam adjacent to generator hall intact
- (e) Auxiliary intake broken in one place
- (f) Exhaust tunnel pierced in one place

KYOSEN #2 (H-14)

- (a) Surge tank roof off
- (b) Three of 4 penstocks severed
- (c) Generator hall three-quarters demolished
- (d) Transformer yard heavily damaged

KYOSEN #3 (H-15)

- (a) Roof off surge tank and tank breached
- (b) Water flowing freely from side of hill below surge tank due to ruptured underground pipe
- (c) Afterbay covered by alluvial material which was deposited when surge tank was breached
- (d) Three or 4 of 4 penstocks broken
- (e) Overflow pipe broken
- (f) Generator house roof half off; remainder of roof pierced in several places
- (g) Sub-station destroyed
- (h) Exhaust tunnel pierced in several places

KYOSEN #4 (H-16)

- (a) Roof off surge tank
- (b) Two or 3 of 4 penstocks broken
- (c) Roof off most of generator house
- (d) Generators probably covered with earth
- (e) Sub-station destroyed
- (f) Several transformers revetted near generator house

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UTM  
Coordinates

SERYUCHON POWER PLANT AND DAM (H-17)

CU378814

- (a) Only the power plant was bombed
- (b) No apparent damage to generator house
- (c) 

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SUIHO (H-18)

XE664800

- (a) Generator hall has large hole in roof at south end, plus 3 smaller holes
- (b) Transformer yard nearly completely destroyed
- (c) Adjacent buildings destroyed
- (d) Adjacent hillside railroad line severed

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THERMAL ELECTRIC POWER PLANTS

HOERYONG (T-1)\*

- (a) Generator and boiler house destroyed
- (b) Transformer yard intact

KILCHU (T-2)

- (a) Generator and boiler house roof destroyed, walls caved in, interior totally gutted
- (b) Transformer yard heavily damaged

KYOMIPO (T-3)

- (a) Generator and boiler house roof heavily damaged and pierced
- (b) Transformer yard heavily damaged

SINUIJU (T-4)

- (a) Generator building gutted
- (b) Transformer station building gutted
- (c) Cooling ponds intact
- (d) Heat pipes to adjacent plant destroyed

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UTM  
Coordinates

EB6298

EA2734

YC290910

XE1839

\*T-1, etc. indicates the location of installation on attached map

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SUB-STATIONS

CHANGHUNG-NI (S-1)\*

Transformer yard destroyed; control house intact; 3 of 4 revetted transformers on hillside

CHIDOK (S-2)

No damage

CHONGJIN #1 (S-3)

Transformer yard and control house destroyed; 3 revetted transformers nearby

CHONGJIN #2 (S-4)

(IRON INDUSTRY SUB-STATION)

Transformer yard and control house damaged; 6 revetted transformers nearby

CHONGJIN #3 (S-5)

Transformer yard damaged; control house intact; 3 transformers revetted nearby

CHONGJIN #4 (S-6)

Transformer yard damaged; control house intact; station possibly still in operation

CHUURONJANG (S-7)

No damage to station; 5 transformers revetted nearby

HAGARU-RI (S-8)

Transformer yard damaged; control house intact; 3 or 4 transformers revetted on hillside

UTM  
Coordinates

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DV656485

EA169073

EB661280

EB666252

EB658277

EB640248

EB504036

CV519715

\*S-1, etc. indicates the location of installation on attached map

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UTM  
Coordinates

HAMHUNG #1 (S-9)

CV739196

Transformer yard and control house  
destroyed; transformer and controls  
installed [REDACTED] revetments

HAMHUNG #2 (S-10)

CV761166

Transformer yard and control house  
destroyed; 6 transformers in covered  
revetments along dike

HONGWON (S-11)

DV101316

Transformer yard and control house  
destroyed; transformer and control  
equipment in nearby revetments

HUNGNAM #1 (S-12)

CV780115

Transformer yard destroyed; control  
house damaged; several transformers  
revetted nearby; control house  
undergoing repairs

HUNGNAM #2 (S-13)

CV795111

Transformer yard and control house  
destroyed; [REDACTED]  
[REDACTED]

HUNGNAM #3 (S-14)

CV824105

Transformer yard and control house damaged

HUNGNAM #4 (S-15)

CV832102

Transformer yard and control house badly  
damaged and abandoned


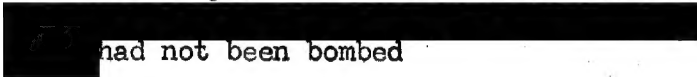

HUNGNAM #5 (S-16)

CV792082

Transformer yard and control house badly  
damaged and abandoned

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		UTM Coordinates	
		CV800080	25X1D
HUNGNAM #6 (S-17)			
Transformer yard and control house destroyed			
HUNGNAM #7 (S-18)		CV820112	25X1D
Transformer yard and control house located			
 had not been bombed			
HUNGNAM #8 (S-19)		CV798113	
Transformers and controls 			25X1B
KIGOK (S-20)		CV771339	
Transformer yard and control house damaged; equipment moved to 6 or more nearby revetments			
NAJIN (S-21)		FB063772	
Station intact			
OCHONJANG #1 (S-22)		DA846294	
Slight damage; equipment moved into 7 nearby revetments			
OCHONJANG #2 (S-23) (MINE)		DA805289	
No damage			
PYONGYANG (S-24)		YD3922	
Sub-station totally destroyed			
SAGU (S-25)		BU779049	
Transformer yard abandoned; control house intact; 6 transformers revetted			

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UTM  
Coordinates

TANCHON (S-26)

Transformer yard abandoned; 2 of 3  
control buildings damaged; 5 trans-  
formers revetted and camouflaged; control  
equipment found in 3 buildings on hillside

DV896786

UMPO (S-27)

No damage; transformers and control  
equipment revetted

DV225334

WONSAN #1 (S-28)

Transformer yard and control yard  
destroyed; [REDACTED]

CV624345

WONSAN #2 (S-29)

Transformer yard and control house  
destroyed

CV689315

YANGJI-DONG (S-30)

Transformer yard and control house  
damaged

CV586400

YATAE-RI (S-31)

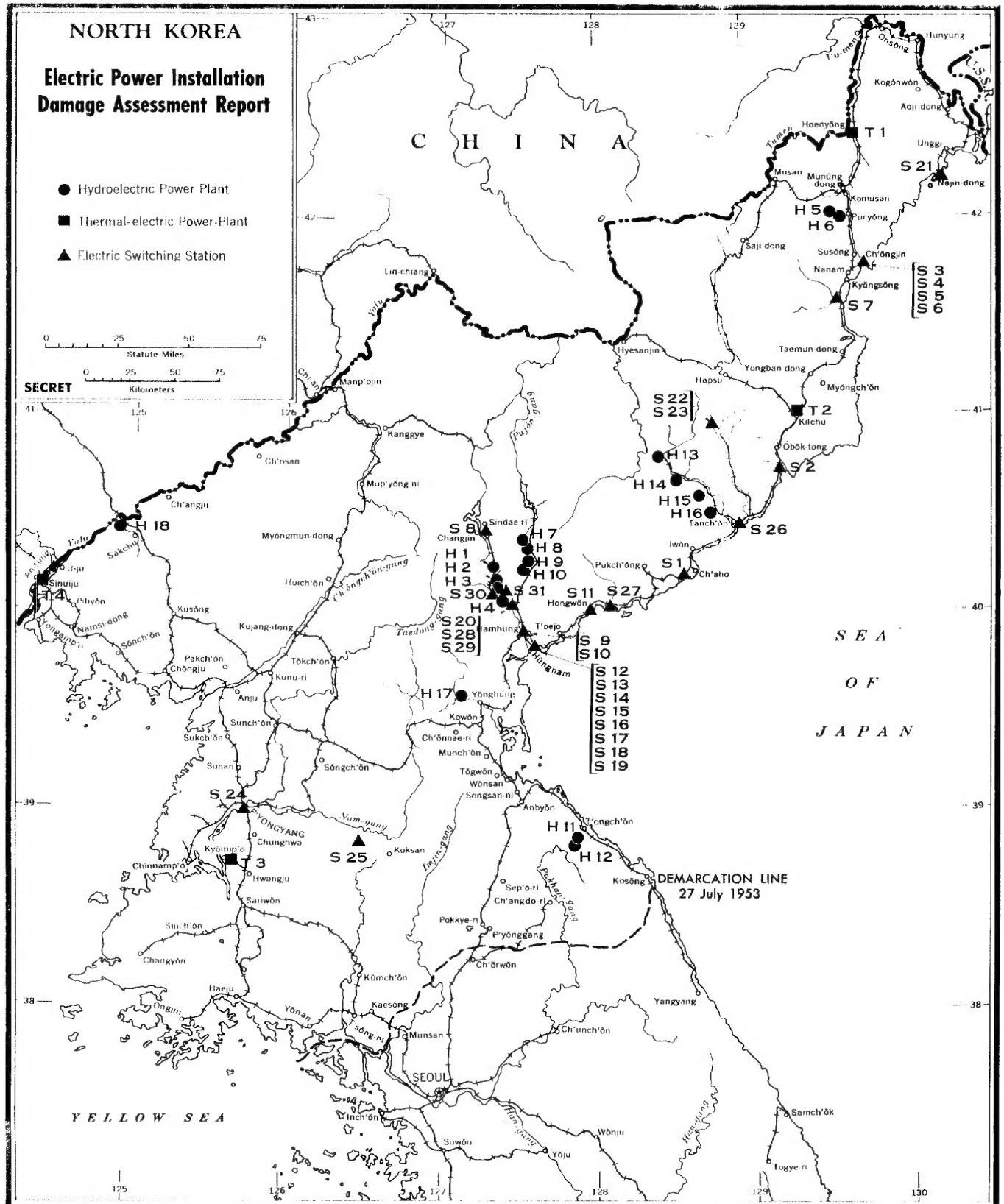
Transformer yard and control house  
damaged; 2 transformers and control  
equipment in 2 concrete revetments

CV585475

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